



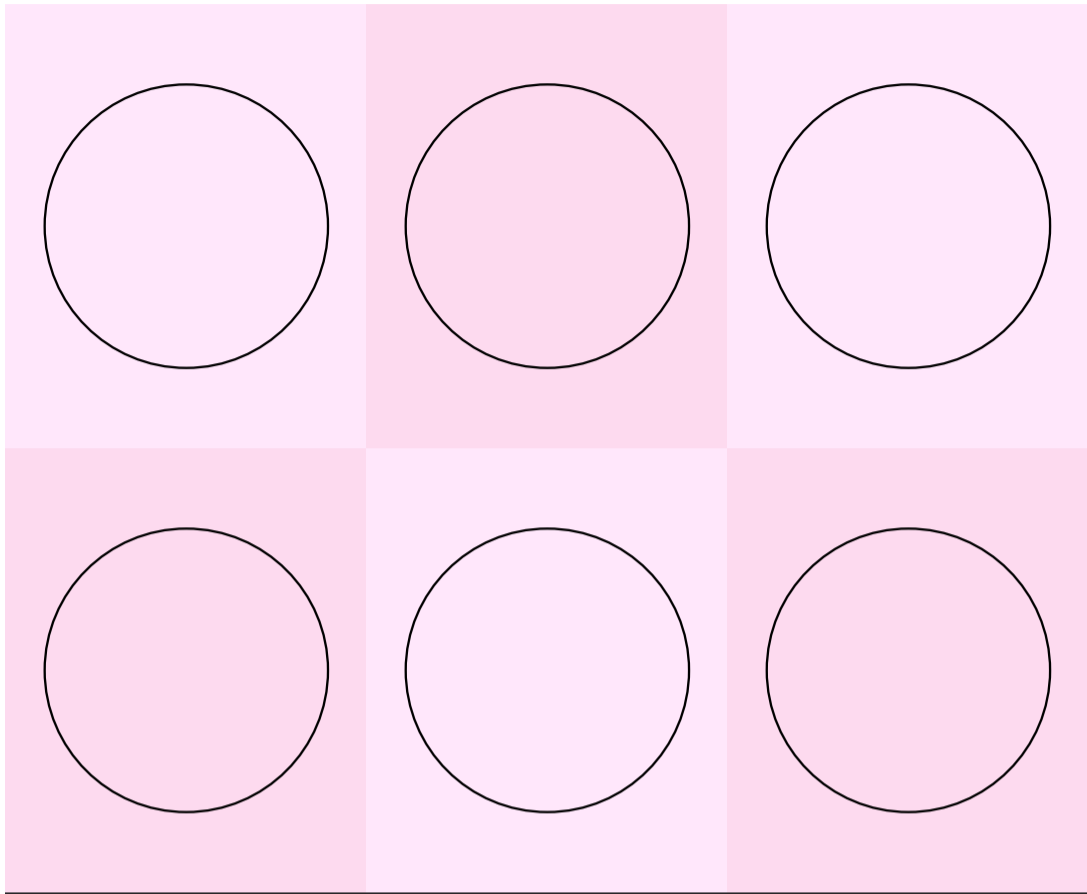
The World's Hardest Word Find



JOIN IN THE FUN ADULTS, THIS ONE'S FOR YOU! WORDS CAN RUN UP, DOWN, FORWARDS, BACKWARDS & DIAGONALLY BUT ALWAYS IN A STRAIGHT LINE. JUST DON'T ASK US FOR THE ANSWERS, WE'VE HAD TO GOOGLE WHAT THE WORDS MEAN! YOU'RE WELCOME.

U A H S H K X S A U M V W B C N Q H C Y E W
 L Z M H I S J G O K A O D O Q A V W A W L B
 B W U A K I M L V B W Z N Q G T N I S E U M
 C H I A R O S C U R I S T Q Y U N H N L C A
 U O A X F R A D A P C E I B Z G I F S S S S
 O O D X F F R G L I H Z I H H N A S J L U D
 F Q A I L A N R E H P A R A P A O B V U N W
 E A U M H H S N E Y M V R X C R Z S A W I B
 Y L F D K O T I S R Z P M C C O A U F A M E
 O T O R H I N O L A R Y N G O L O G I S T Y
 G A P G O S I N B B T Z K P I D W O T E G K
 K B I U O U A I E R I H S R E T S E C R O W
 J B S E W R Z C U K P F W Y E I W E W M B G
 J H X N O J R P R W V L J W C N T L L G B W
 S G F E Q P H H R I U E P B V Y N Y H V L K
 O U T D Y H O A E W L Y E Q J W N Q B X E G
 N P O R Q W L T I A U E P W Q R S M O F D V
 W J J E L A V A A W D D G I Z T D N H W E G
 M N B A S D G V S M Q Z G I S O U Q O Q G U
 S H X V H U Y K J H O E V A O J H O G T O H
 C F O Z S F A V I P L N V P K U G M I O O O
 L M H V Z U V N J T U O O Q P L S I Q V K Y

WORCESTERSHIRE	SACRILEGIOUS	ONOMATOPOEIA
NAUSEOUS	GOBBLEDEGOOK	ORANGUTAN
MINUSCULE	CONSCIENTIOUS	CHIAROSCURIST
OTORHINOLARYNGOLOGIST	PARAPHERNALIA	LOGORRHEA



Circle Fun

PIZZAS, STEERING WHEELS, DONUTS AND THE SUN ALL HAVE SOMETHING IN COMMON, THEY ARE CIRCLES! GRAB YOUR COLOURING PENS AND HAVE A GO AT THINKING OF OTHER THINGS THAT ARE MADE WITH CIRCLES USING THE TEMPLATE ABOVE. PRINT THE TEMPLATE OUT, OR CREATE YOUR OWN CIRCLES ON A PIECE OF PAPER AND HAVE A GO. LET YOUR IMAGINATION RUN WILD!



SUPER POWER: Thrust!

CATAPULT PLANE

LAB NOTES...

TO MAKE YOUR CATAPULT PLANE...

WATCH & BUILD TIME
15 MINS

1. Watch the video of Nanogirl making her catapult plane!
2. On a piece of paper, measure and cut out a 16x8 cm rectangle
3. Fold the rectangle in half lengthways twice to make it narrower.
4. Fold the rectangle over 3cm in from one end of the rectangle, folding the paper all the way over to make a 'hook'.
5. Put the paper 'hook' through the elastic band, then tape the folded end down to trap the band in the hook.
6. Draw and cut out a 12cm equilateral triangle on the card - that's a triangle that's 12cm long on each of its three sides.
7. With the elastic band and hook at one of the points (your plane's nose), align the folded rectangle down the centre of the card triangle, so you have two evenly-sized wings, one on each side of the rectangle. Secure with tape.
8. Attach the paperclip/Blu-Tac/plasticine on the nose of the plane (the corner of card by the elastic band) to add some extra weight.
9. Hook the elastic band around the tip of one of your thumbs and pull the folded paper back with the other hand (the elastic band is extended in front of the plane). Let go of the paper and the plane should fly forward!

Why not set up a game where you make paper skittles by rolling strips of paper into a tube and lining them up on a table. You can give each skittle a point value and challenge your friends or family to a game to see who can score the most points by knocking the skittles over with their plane!

YOU WILL NEED

- Scissors
- Tape
- Paper clip or blu-tack/plasticine ..
- Large elastic band or stretchy hair elastic
- Thin card (e.g. cereal box card)
- Plain paper
- Ruler
- Pencil
- (Optional) Colouring and decorating supplies

Thrust is the force that helps planes to fly forwards.

Airplanes create thrust by moving air through their engines. When a plane is in the air, the forward force of thrust acts against another force called 'drag', which works to slow the plane down. In this experiment, when you pulled back the plane you stretched out the elastic band. This creates a build-up of stored energy known as potential energy.

When you let it go, the energy was converted to kinetic energy or moving energy, which helped the paper plane to thrust forwards through the air.